



The

GARzette

The Official Newsletter of the Gwinnett Amateur Radio Society
March 2014 <http://www.gars.org/> Volume 23, Issue 3



Towers Make a Difference!



Learn more about towers at our next meeting

Message from the President

I want to start by thanking all of you who have placed me in this position of honor - the helm of the "Dayton Hamvention Club of the Year"! I would like to think I had a small part in helping us get there but the real thanks goes to all the volunteers and past officers who have worked so hard over the previous years to get GARS to where we are today. TechFest, top ranking 8 stations Field Day, Satellites in the Park, HamCrams and testing sessions are just a few of the events that help make the organization a vital part of Gwinnett and the ham community. Not to mention one of the best wide-area repeater systems in the Southeast.



On the subject of Dayton, Kyle and I are planning to be there this May to accept the award on behalf of the club. It would be great to see as many of you as possible in Dayton, so if you can manage to break away, please do! This will be my first time attending the Dayton Hamvention and I could not ask for a better excuse. Hope to see lots of red shirts there!

Another HamCram is here. Not much time left but if you have any friends or neighbors that are interested in Amateur Radio please encourage them to sign up. The last HamCram brought us many new members and it is always great to have new friends in the Ham community to help mentor.

GARS has many great events coming and plenty of opportunities to get involved. Don't be shy, sign up and join in. The Georgia QSO party will be the next event coming April 12th and 13th. This is a great opportunity for newcomers and seasoned operators to rub elbows, learn some techniques, and get on the air. This will also be a great chance to get to know our new Field Day location, Harbins Park.

These are just a few of the upcoming activities to get involved in. I hope to see many of you at these activities. We have a great year planned and we're just getting started!

Thanks and 73s,

Rick, N4XYX



"It is not the class of license the Amateur holds, but the Class of the Amateur that holds the license."

[Author Unknown]

GARS March Meeting

**“There's more to building a tower
than Guy-wire, Steel and Location”**

by Chris Balch KS4MM

Tuesday March 11, 2014

**Meetings are held on the 2nd Tuesday of each month at 7pm.
(except December)**

at

**Sports Aviation Complex - Hangar 1
690 Airport Road
Lawrenceville, GA 30045**

[Directions](#)



Memories of the Ice Storm of February

“I was so happy to have my Ham Radio [with me] so I could keep in touch with my family while sitting on [Interstate] 85 [near Atlanta with all] the cell towers jammed [during the snow storm of 2014]. That is one of the reasons I love ham radio!

I hope everyone is safe and warm!”

Allison
KZ3JFY



CONTEST INFO from Scott, KD4YDD

The ARRL International DX Contest Phone/CW (This is the phone one) is where we (USA and Canadian stations) work DX stations and they try to work us.

Alaska and Hawaii are considered DX and count as such.

You can work a stateside or Canadian station if you want, but it does not count as a point, only the DX counts. I typically do not waste the time on them and look for DX only.

You can work 160, 80, 40, 20, 15, and 10. Each time you work a new country or DX station on a band, it is considered a multiplier and a bonus point so to speak. So you can work II9I in Italy on 6 bands and get bonus points.

When you work a new DX station in a country you have already worked, it is points, but not a multiplier. Only the first country on the band is a multi.

Personally what I do is called Seach and Pounce. Basically, start at the bottom of the band and work my way to the top looking for multi. That is a great way to boost your score. Most of the time I will start on 10 meters, work the band then move to 15, work the band then 20. You get the idea.

At any rate, hope this is helpful. Contesting is great fun!

GARS Communications

2 Meter Repeater
147.075(+) MHz
82.5 PL Tone

APRS
144.390 -- 1200 Baud
W4GR

D-Star
WD4STR
145.060 + (1.4 MHz)
440.550 + (5 MHz)

Main Repeater Site
Oak Street,
Lawrenceville

2 Meter Repeater
147.255(+) MHz
107.2 PL Tone

6 Meter Repeater
53.110 (-1 MHz)
82.5 PL Tone

70 Cm Repeaters
444.525(+) MHz
82.5 PL Tone
442.100(+)
82.5 PL Tone

Backup Repeater Site
Lanier Mountain,

Club of the Year Celebration

At our February meeting, we celebrated our **Club of the Year Award**, awarded by Dayton Hamvention. If you go to this page: <http://hamvention.org/awards.php> you can see the write up about the award. The meeting was combined with our election of officers. Here are some pictures of our celebration.



2013 Officers & Chairs



Newly elected 2014 Officers



Kyle handing new gavel to the new President, Rick, N4XYX



New president Rick handing a Plaque of Appreciation to outgoing president Kyle



Two beautiful and delicious cakes to celebrate with.



Our new buttons to wear at the Dayton Hamvention (and everywhere)



The GARS Repeater System by Kyle Albritton



The GARS Repeater System is "All Ears"



Did You Know?



SOME of the European stations aren't letting any grass grow under their feet in the single-sideband field, and the next few months should see a number of trans-Atlantic s.s.b. QSOs. The first station on in Denmark is OZ7T, Steen Haselbalch of Hellerup. Steen operates between 3.7 and 3.8 Me., with occasional excursions into the 14-Mc. band. The transmitter uses audio and r.f. phase-shift networks similar to the W2TJNJ exciter, but balanced modulators are not used. Instead, a pair of grid-modulated 6SJ7s is used to generate s.s.b. *with* carrier, and the carrier is then balanced out by introducing equal-and-opposite carrier through a third 6SJ7. The re-sultant s.s.b.-suppressed-carrier signal is ampli-fied by an EBL21 (similar to a 6L6). Steen got across the pond with the rig in early December, when he worked VO3X on 80 meters. It is re-reported that OZ7BO and OZ7HB are building s.s.b. transmitters.

In Bjornstorp, Sweden, Thure-Gabriel Gyllen-krok has had a phasing rig on at SM7HZ since mid-1948. It ends up with a pair of T40s running 200 watts peak, and skeds with OZ7T are kept every Tuesday at 2000 GCT on 3720 kc. The receiver is an SX-42 with a homemade version of the YRS-1 adapter. About the adapter he says, "That's about the best thing I have ever built." His friend SM7PP built a receiving adapter using IN34s in the balanced demodulator, with a Dome network for the audio shift, all on a 4 X 5 X 2-inch chassis. Summing up his experiences, SM7HZ says about s.s.b.: "No QRM or QSB can hurt your signal, but they won't believe you when you tell them to turn on the beat oscilla-tor!"

Another one in Sweden is SM5QV, Gunnar Petersson in Stockholm. His rig is a phasing job with 6SJ7s and ending with an 807. Peak input on 80 or 20 runs around 50 watts.

If you read the English *Short Wave Magazine* you already know that G2NX, H. C. Woodhead of Salop, is active in G-land. He has had a series of articles describing his equipment and the general principles of s.s.b. His rig is unusual in that it uses a crystal filter at 5.6 Me. to eliminate the unwanted sideband. The filter uses two crystals collected from BC-733s, and it took quite a bit of search to find two close enough together in frequency. The transmitter runs 20 to 40 db. sideband suppression over the speech passband of 2300 cycles, and the peak power on 80 meters runs 90 watts. He can be found any-where between 3.6 and 3.73 Me. from 1900 to 2300 GCT, with 3.73 Me. the usual frequency. His first QSO with OZ7T was in December.

The first on in France is A. Claudet, F8AJ at Orly. The rig is similar to the W2UNJ design, using 1619s for the balanced modulators, with drive furnished by a 6AG7 crystal oscillator. Al-though the output is low (2 or 3 watts), locals report the signal equivalent to that from the 20-watt a.m. rig. It took careful selection of the 1619s to get good carrier

suppression, and the r.f. phase balance was a bit tricky, but this might be expected on 14 Me. Operating frequencies are 14,346 and 14,300 kc., with most of the activity on Sundays. F8AJ says, "The stuff is awfully exciting, and I don't remember enjoying such a thrill since my first CQ in 1927."

In Cape Town, H. G. Manchip has ZS1KC on 20-meter s.s.b., running 50 watts to an 807. A filter rig is used, and a fixed beam headed NNW gives the signals a good chance of getting over here and giving the gang its first crack at a two-way s.s.b. contact with Africa.

When Dave Mann, W3MBY, built his first filter rig back in 1948, "Butch" Mason, W3MGG, built one too, and together they explored some of the possibilities of s.s.b. on 20 and 75. When they finished PG school at Annapolis in mid-1949, Dave went to Washington, D. C., and Butch took his rig and his 2J[^] stripes to Southern California, where he got his old call of W6KAG. It seemed like a good chance to see what s.s.b. could do over a long-haul path, and they started 14-Mc. schedules in late October. Since then they have had more than twenty solid QSOs that average an hour or more (some have lasted two). Analysis shows that three factors determine the length of QSO: "(1) The band folds up. (2) A wife decides it is long past bedtime on the East Coast or long past dinnertime on the West Coast. (3) Everything to be said has been said and then some." The output stage at W6KAG is the 813 in a Meissner 150B, running 400 watts on peaks, and the antenna is a Twin-Lead W8JK 40 feet high. The receiver is a BC-348Q into a BC-453 into a balanced detector (pair of 6L7s) fed by a 6J5 oscillator switchable to either 83.5 or 86.5 kc., followed by a Selectoject. The re-ceiver does a good job of making all 'phone signals s.s.b., and it does a beautiful job on s.s.b.-suppressed-carrier signals. Butch says KH6CT has a YRS-1 adapter that he swears by and is planning a phasing rig, while KH6OR is busy collecting filter components for his new job. As one last comment on the long-haul skeds, W6KA.G says it is amazing how weak an s.s.b. signal can get and still be solid copy. He and W3MBY often wind up their QSOs and find that the band is dead and has been for some time.

Another new one on the Coast is W7LWB, A. Kerzie of Seattle. He uses the "basic 'phone exciter" followed by 6SA7-6AG7-807, the 807 running Class A. A final using a pair of 811s is in the works. Prior to the 807, which is good for 40 watts on s.s.b., the 6AG7 drove an 815 at 12 watts peak input on- 20, but with that QRP (and a 3-element beam) the East Coast and KH6 were worked on s.s.b. Commenting on his experiences, W7LWB says, "If the results with the 811s are anything like those obtained with the 815, there will be a good 400-watt conventional a.m. rig for sale or swap. As a matter of fact, it hasn't been used since the first day of s.s.b. operation." The receiver is an HQ-129X with s.s.b. adapter built from the G.E. Ham News article. The adapter "was built long before the transmitter, helping a great deal in the construction of the transmitter. The hams are sure missing a good bet for a.m. and c.w. as well as good s.s.b. reception by not using one."

(Continued on page 13)

Beginner's Corner

By David Harden, KJ4CMY

BaoFeng Radios Revisited

I had the opportunity to work at the Dog Show at the Atlanta Expo Center in January. It is a good fundraiser for GARS and Gwinnett ARES, as well as a good opportunity to “play radio” and get some experience. There is another one in August, and new hams are greatly encouraged to come out and help. The work is easy, and being with fellow hams is a lot of fun

While there, I got to see the BaoFeng HTs we discussed last month. One ham I worked with had a bit of difficulty programming his BaoFeng to the repeater we were using. He did not have the instructions (earlier noted as confusing), but after a fashion, he was able to program the offset and the PL tone. It worked ok. Another ham had one, but he did not advise new hams to purchase this radio, because of the problems associated with it. If all you can afford is one of the BaoFeng, be advised of the difficulties using this radio.



ICOM Radios for Beginners

I received an e-mail from Ray Novak, N9JA, the Division Manager – Amateur and Receiver Products for ICOM, concerning their HTs for beginners. His comments are here:

“Most will consider an entry level radio being a VHF, as most portable activity can be found on VHF due to the number of VHF repeaters along with VHF’s propagation characteristics being much better than UHF.”

“While there are the inexpensive Chinese options available, we offer the IC-V80 Sport, and the V80 HD. While the radios are the same, the differences in the Sport and HD are the accessories packaged with them. The Sport comes with the AA alkaline case while the HD has the High Capacity Li-Ion battery and the Rapid Charger. The Rapid Charger has a 110VAC wall wart, but will also operate off 12VDC.”

“If you find yourself needing both VHF and UHF, we have the IC-T70A. The ‘T70A has both a Sport and a HD version like the IC-V80 series. You can check your favorite dealer’s website for pricing information.

“Amateur Radio's YouTube star, Randy Hall, K7AGE, has created a series of videos showing operation of the IC-V80 Sport. Below are the links to the videos on the Icom YouTube Channel for these videos:”

Part 1: [Getting started on 2m FM](#)

Part 2: [IC-V80 Basics](#)

Part 3: [Repeater Operations](#)

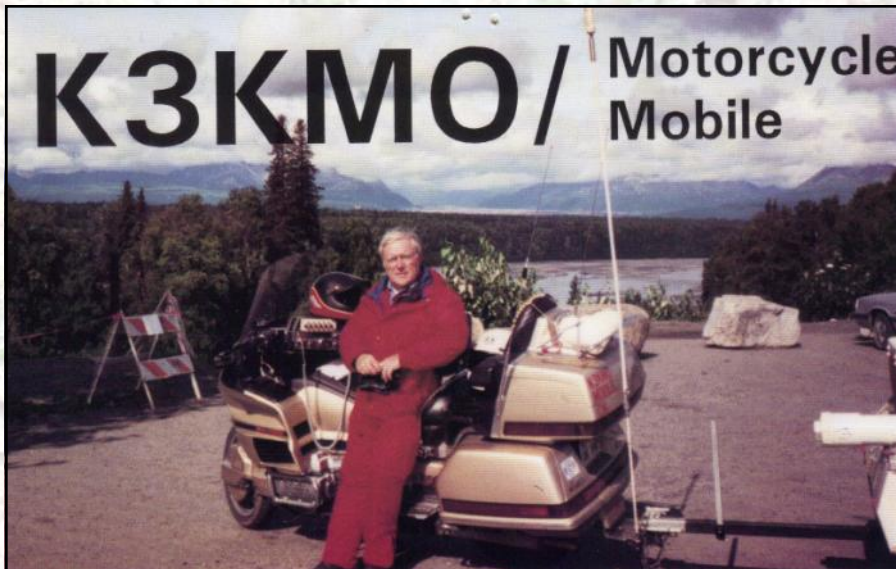
We'll look at other brands that new hams might like in a later column.



Motorcycle CW

Back in 1992 I worked with Al Brogdon, K3KMO at the Applied Physics Laboratory in Laurel Maryland. Al and I were members of APLARC (APL Amateur Radio Club), so when he decided to take a trip, by motorcycle, to Alaska, my interest was piqued. Before he left, I got as much information about his trip as possible; his route, his planned schedule of operating CW Mobile, and what frequencies he intended to frequent. (pun intended) Al was very fluent with CW and didn't seem to have a problem operating from a motorcycle, in motion, and slowing down for people like me. I think I was only able to do about 15 wpm at the time. I was able to stay in touch with him all the way to the border of Canada in Montana, and after that it was as if an Iron Curtain dropped into place between him and me. I never was able to hear him again until he re-entered the United States. I received the QSL card below from him later. Al worked for the ARRL in Newington, CT for a time and is co-writer of a book entitled "Amateur Radio On the Move" found here: <http://www.arrl.org/shop/Amateur-Radio-on-the-Move>

On the back of the QSL card is an explanation of his trip. Al is now K1AB, and lives in Fitzwilliam, NH. His K3KMO call is now used by the Fitzwilliam Amateur Radio Telegraph Society (FARTS), of which Al is "El Presidente" for life.



If you do a search on K3KMO you will find some very interesting articles that Al has written over the years.

Ray, N4GYN

IN INDIANA
This confirms the two-way CW contact between K3KMO/motorcycle mobile and N4GYN,
whose signals were RST 599 at 1650 UT on 27 JULY 1992.

The Alaska Highway, Alaska's first road to the Lower 48 States, was built during World War II as a military supply route. Work on the Highway began in March 1942 and the first primitive roadway was finished in October 1942. Ongoing improvements since then have made the Highway an excellent access route to the wilderness and beauty of Alaska and northwestern Canada.

One of the activities commemorating the 50th anniversary of the Alaska Highway was a motorcycle rally. My son Pat (age 15) and I rode my motorcycle from Maryland to Alaska and back as participants in that rally, traveling 10,500 miles between July 26 and August 27, 1992. I made over 400 CW contacts during the trip. Thanks to the many hams who made the trip an exciting radio adventure for me with the FB ragchews, words of encouragement, and good wishes. Special thanks to those who relayed messages to our family and friends, to report our progress and safe passage.

The station was a Kenwood TS-140, an MFJ-484 grandmaster memory keyer, a Hustler MO-3 whip with an MO-4 two-foot mast extension on the bottom, a small keying paddle mounted on the underside of the left handgrip (I'm left-handed), and Sony headphones mounted in my helmet.

My Honda Gold Wing motorcycle is an 1991 Interstate, with a six-cylinder 1500-cc engine. We pulled an Australian-made Kamparoo tent trailer (6'x4'x1 ft) that also carried our luggage.

Photo (by Pat): Looking for Mount McKinley (20,320 ft elevation) but seeing only clouds!

TNX FOR THIS AND THE SEVERAL OTHER CHATS, RAY!

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73, Al

Al Brogdon, Box 60, Damascus, Md. 20872
Hang-out frequencies: 7037 and 14037 kHz

GARS Membership Page

New GARS Members in February

Michael Curtis (KK4WWB)
Ron Rogers (WW8RR)

New Members: 2

**Total Members as of March 1, 2014
- 256 -**

Join us for our weekly breakfast gathering
at 7:30 AM Most Saturdays at:

Golden Corral
2155 Riverside Parkway
Lawrenceville, GA 30043
([Directions](#))

Also, before our Tuesday meeting you are invited
to join other GARS members and guests dining at:

The Flying Machine (starting about 5:30 PM)
510 Briscoe Blvd. NE
Lawrenceville, GA
([Directions](#))

**The following members are
celebrating birthdays
in March:**

HAPPY BIRTHDAY!!
From All of Us at GARS

Jody Ackermann (KC8KDC)

Rich Arland (K7SZ)

Deidra Atkin

David Bruse (W4DTR)

William Campbell (KK4SGZ)

Cecil Duncan (KD4ZEM)

Mark Fehlig (WA6NGC)

Jason Hilborn (KD4BGE)

Robert Jones (KD7YDW)

Jack Mason (KK4ULP)

Robert (Mike) Smith (KK4KHS)

Phillip Turner (KK4WEU)

Marvin Whatley (KK4QCI)

GARS MEMBERSHIP

To become a GARS member, or to renew your GARS membership, please visit our website—<http://www.gars.org>

To make changes to your GARS membership (moved, new email address, new phone number, etc.),
please email the Membership Committee - membership@gars.org

You can **renew or update** your Amateur Radio license information with the FCC at their website for free
<http://wireless.fcc.gov/uls/index.htm?job=home>

To update your ARRL information, please visit their website - <http://www.arrl.org>

Membership Chairman: Karen Albritton, KI4HPP

Committee Members: Richard Atkin, KJ4ZTY.

Net Managers Corner

Hello everyone, from N4LNE, GARS Net Manager.

I want to thank everyone for taking the time to check in to the nets and I especially wish to thank the NCS and ANCS stations for their time and effort.

Please think about adding *your* name to the list as NCS or ANCS.

Monday Night Net Stats

<u>DATE</u>	<u>CHECK INS</u>	<u>NCS</u>	<u>ANCS</u>
02/03/2013	35	Hal W4IGE	-
02/10/2013	43	Sandy KJ4DRO	Karen KJ4VQI
02/17/2013	39	Ray N4GYN	Norm WA4ZXV
02/24/2013	30	John WB4QDX	Ralph KJ4CNC

Wednesday Night "Know It All" Net Stats

<u>DATE</u>	<u>CHECK INS</u>	<u>NCS</u>	<u>ANCS</u>
02/05/2013	22	Norm WA4ZXV	-
02/12/2013	0	Mike KK4KHS	-
02/19/2013	24	Jeff AB4HF	Mitch N0DM
02/26/2013	25	Jeff AB4HF	Jim KK4LDD

73'

See you on the Nets!

Phil, N4LNE
Net Manager



Upcoming TOPICS for the "KNOW IT ALL" Net Thursday nights, 8:30-9:30 pm

Mar-05 Radio Roundtable
Mar-12 Amplifiers
Mar-19 Multi-mode
Mar-26 Georgia QSO Party

Everyone is having great fun on this net! Come join us and become a "KNOW IT ALL".

TIME: 8:30 every Wednesday evening on the GARS repeater - 147.075 +, PL 82.5

6m 53.110 - No Tone

70cm 442.100 + PL 100.0

ARRL CONTESTING INFO

(All names of contests are Links in .pdf version)

April

20 [Rookie Roundup – Phone](#)

June

14-16 [June VHF](#)

15 [Kids Day](#)

28-29 [Field Day](#)



July

12-13 [IARU HF World Championship](#)

[Rookie Roundup Notice](#)

The Rookie Roundup returns to Phone on Sunday, April 20, 1800 UTC through 2359 UTC. This is a great opportunity for new operators to get on the air and learn the skills of contesting.

"Old Timers" should also take note of this event. Consider opening your station up to a rookie (or two) and become an elmer. Remember, the more operators are on the air, the more fun the 'Roundup will be for everyone.

Be sure to read the rules before the event. It is also helpful to be familiar with the logging and submission processes ahead of time. You're in the right place; browse this page for information and tips on operating the Rookie Roundup. We hope to hear you on the air!

[June VHF](#)

For amateurs in the US and Canada (and their possessions) to work as many amateur stations in as many different 2 degrees x 1 degree Maidenhead grid squares as possible using authorized frequencies above 50 MHz. Stations outside the US & Canada (and their possessions) may only work stations in the US (and its possessions) and Canada.

Stations in KH0-9, KL7 & KP1-KP5, CY9 and CY0 count as W/VE stations and can be worked by DX stations for contest credit.

[About Kids Day](#)

Twice a year, ARRL offers an event designed to promote Amateur Radio to our youth. Share the excitement with your kids or grand-kids, a Scout troop, a church or the general public!

Kids Day is designed to give on-the-air experience to youngsters and hopefully foster interest in getting a license of their own. It is also intended to give older hams a chance to share their station and love for Amateur Radio with their children.

HAMFEST CALENDAR

Southeast US

03/15/2014 | [Ellijay Ham Fest](#)

Location: Ellijay, GA

Type: ARRL Hamfest

Sponsor: Ellijay Amateur Radio Society

Website: <http://www.w4hvh.org>

03/29/2014 | [Thomasville ARC Hamfest](#)

Location: Thomasville, GA

Type: ARRL Hamfest

Sponsor: Thomasville Amateur Radio Club

Website: <http://thomasvilleamateurradioclub.com/hamfest/>

04/12/2014 | [Mobile Hamfest](#)

Location: Mobile, AL

Type: ARRL Hamfest

Sponsor: Mobile Amateur Radio Club

Website: <http://w4iax.net>

04/26/2014 | [Calhoun Hamfest](#)

Location: Sugar Valley, GA

Type: ARRL Hamfest

Sponsor: Cherokee Capital Amateur Radio Society

Website: <http://www.k4woc.com>

04/26/2014 | [Wiregrass ARC Hamfest](#)

Location: Headland, AL

Type: ARRL Hamfest

Sponsor: Wiregrass Amateur Radio Club

Website: <http://wb4zpi.org>

06/07/2014 | [Georgia Section Convention \(Atlanta Hamfest\)](#)

Location: Marietta, GA

Type: ARRL Convention pending Executive Committee approval

Sponsor: Atlanta Radio Club (W4DOC) & Kennehoochee Amateur Radio Club (W4BTI)

Website: <http://www.atlantahamfest.org>

BSA Venture Crew 73 Wants You!

IF YOU are between 14 and 21 years old, enjoy outdoor activities, and have an interest in radio technology,
Venture Crew 73 is for you.

- Venture Crews are part of the Boy Scouts of America.
- *Venture crew 73 is chartered by the Gwinnett Amateur Radio Society.*
- Venture crew 73 is coed.
- *Meetings are on the second Tuesday of the month, 7:00 pm, at EAA 690 Hangar at:
 Briscoe Field - Sports Aviation Complex
 Hangar 1, 690 Airport Road
 Lawrenceville, GA 30045*
- Crew 73 is a youth-run organization, which means that our Crew President and other youth plan the Crew's outings and activities each month.

We enjoy:

- ◇ *Camping*
- ◇ *Hiking*
- ◇ *Horseback Riding*
- ◇ *Shooting Sports*

- Crew activities usually mix high adventure and the use of Amateur Radio.
- For more information, attend our next meeting or contact:

Steve Back, WB2OGY

Venture Crew 73 Committee Chairman

Phone: 770-712-9069

Email: committeechair@venturecrew73.org

Jeff Lee, AF4JL


















Venture Crew 73 Advisor

Phone: 678-475-3165




Email: advisor@venturecrew73.org



G A R S Officers and Committee Chairs

Rick Cobb, President	N4XYX	
Mike Weathers, Vice President	ND4V	
Allison Lynch, Secretary	KZ3JFY	
Sid Weaver, Treasurer	N4NQ	
Mike Smith, Program Manager	KK4KHS	
Karen Albritton Membership Chairman	KI4HHP	
Dave Bruse, Ham Exam Team Leader	W4DTR	
David Adcock, Webmaster, Field Day Chairman	KA4KKF	
Dorothy Jubon, Public Information Officer	N2DLJ	
Ralph Pickwick TechFest Chair, Apparel Mgr	KJ4CNC	
Ray Bailey, GARzette Editor	N4GYN	
Jeff Cutchins Multimedia Chairman	AB4HF	
John Ackermann, W4GR Trustee	N8UR	
Eddie Foust, Repeater Chairman	WD4JEM	
Mike Weathers, WAS-Checker, Historian	ND4V	
Phil McCleary, Net Manager, ELMER Chair	N4LNE	
Mike Swiderski, Technical Advisor	K4HBI	

ADVISORS

Kyle Albritton	W4KDA	
David Adcock	KA4KKF	
Norm Schklar	WA4ZXV	

Just for fun!

Is it OK to operate AM.... after NOON?

(Check out 10 meter AM on 29.000 MHz and up)

Ham Weight Loss Program..... AUTOMATIC GAIN CONTROL!

**An elderly ham driver was going down the interstate when suddenly his 2 meter rig crackled his call...Answering...he heard a fellow ham's urgent warning..... "Hey Elmer, just heard on the news that there's a car going down I-40 the wrong way, please be careful"!!
Elmer replied, "Well I'll declare, it's not just one..... there's hundreds of them!!!!!!!"**

GARS Recurring Calendar

- ◆ Monthly club meeting is the 2nd Tuesday of the month at 7 pm
- ◆ Every Monday at 8 pm: GARS Want, Swap, Sell, and Information Net on the GARS 2-meter repeater
- ◆ Every Wednesday at 8:30 pm: GARS Know It All Net on the GARS 2-meter repeater
- ◆ Every Thursday at 9 pm: GARS Round Table Net, 2 & 6 Meters

Every Saturday at 7:30 am: GARS Weekly Family Breakfast, Golden Corral Restaurant, Riverside Drive, Lawrenceville

Meeting Minutes for February 18, 2014

Kyle Albritton, W4KDA, GARS President, called the meeting to order at 7:05 p.m.

GARS is Dayton Hamvention Club of the Year – Earl had buttons made and presented Kyle with the first one. Everyone at the meeting got a button. Kyle and new president invited to go receive the award.

Pictures of the club members, old officers, and new officers were taken.

Thinking about making commemorative patches

Cake and free drinks were served at the meeting to celebrate Club of the Year.

Introductions of first time visitors and others present.

Treasurer's Report – Ralph Pickwick, KJ4CNC

N4XYY gave membership: 11 new members; 267 total members

Program Manager – Sandy Jackson, KJ4DRO, announced no program on schedule.

There were 75 attendees at the meeting.

Nominating committee showed recommended slate of officers:

President: Rick Cobb N4XYY **VP:** Mike Weathers ND4V
Secretary: Allison Lynch KZ3JFY **Treasurer:** Sid Weaver N4NQ

Program Manager: Mike Smith KK4KHS

Nominations open from the floor. None made. Voting took place and nominations are now new officers.

Dale N0DIM made a gavel for GARS, from tube parts. Kyle presented it to Rick N4XYY.

Rick N4XYY presented Kyle with a "thank you" award.

Hamcram is March 29 at Gwinnett EOC. \$20 fee, lunch included and VE testing.

Thanks to GARS and ARES for working the dog show.

GARS helped sponsor Amsterdam FT5ZM DXpedition.

Field Day will be at a new location this year, Harbins Park on the fourth full weekend in June. Plan on having GARS GA QSO party there, too.

1st of July week, Help staff 13 Colonies K2G station. Sign up to work. Email WB4WHD@arrl.net for info.

Break

Presentation about the "GARS Repeater System" by Kyle, W4KDA.

Drawings for prizes.

Meeting adjourned at 9:21 p.m.

Allison Lynch, KZ3JFY, Secretary

Did You Know?

(Continued from page 5)

The s.s.b. rig at W9ERN, John Clemens of Evansville, Ind., is built in a Meissner Signal Shifter box. Using ideas from several phasing jobs, the r.f. end is a 6AK6-6AK6 VFO doubling to 75 meters driving a pair of 6SN7 balanced modulators through a low-Q r.f. phase-shift net-work. The audio end is 6AU6-6BF6 into a Dome network into a pair of 6AQ5s. The output of the 6AQ5s is used to plate-modulate the 6SN7s, and the output drives a Class A 807 to 5 watts peak output. With a 7-Mc. antenna that "shouldn't get out" on 75, John has managed QSOs with Vermont, Minnesota and many of the s.s.b. gang, and a larger s.s.b. rig is already in the works. It took only a little operation to find that the 5 watt; of s.s.b. was enough to join the 75-meter battle.

A new one on 28 Me. is Mark Moynahan of Brooklyn, W2ALJ, ex-KL7OO. The rig is a phas-ing job on 4.5 Me. heterodyned to 28 Me. and amplified finally by a pair of 5514s running 500 watts. The antenna is a 4-element rotary. All oscillators are crystal-controlled, so the stability will be determined by the receivers in use.

WOTLE finally deserted 10 for 75, where results with a BC-610 on a.m. had never been very good with the low-lying (20-feet high) an-tenna. However, with 650 watts peak to the pair of 813s operating s.s.b. it is an entirely different story. Ward has worked out all over the place, including about 25 different s.s.b. stations. There are a few operators who appear to be "antagonistic" toward s.s.b., but that seems to be mis-understanding brought about by lack of under-standing.

The only dope we have on recent activity at W1SHN is that he worked G6WT on 75 in 'De-cember, but that is a nice little hop on that band. . . . Ed Flowers, W4OFG of Oakville, Ky., has a W2UNJ exciter on 75, driving a pair of 5D21s to 500 watts.

If you want to see for yourself what s.s.b. can do, listen to some of the snappy single-frequency duplex and triplex QSOs of W4OLL, W3BOL and W3ASW on 3999 almost any evening. This gang has installed voice-controlled electronic relays that silence their receivers when they are talking and cut off the transmitters when they aren't. It isn't true duplex or triplex, in that they can't hear the other stations through their own transmitters, but it is so close in effect that you can hardly notice the difference. It's just about the snappiest operating you will find in any of the 'phone bands.

- ***B. 0.***

QST for March 1950 [unedited original]

GARS CALENDAR OF EVENTS MARCH 2014

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
					1 7:30 - 9:30 am Breakfast at Golden Corral Riverside Drive	2
3 8:00 - 8:30 pm GARS 2m Net	4 6:30 - 8:00 pm GARS Exec Meeting	5 8:30 - 9:30 pm GARS Know-It-All Net	6	7	8 7:30 - 9:30 am Breakfast at Golden Corral Riverside Drive	9 DAYLIGHT SAVINGS TIME STARTS
10 8:00 - 8:30 pm GARS 2m Net	11 5:00 PM - 6:30 PM Dinner at Flying Machine 7:00pm -9:00pm GARS Meeting	12 8:30 - 9:30 pm GARS Know-It-All Net	13	14	15 7:30 - 9:30 am Breakfast at Golden Corral Riverside Drive	16
17 8:00 - 8:30 pm GARS 2m Net	18	19 8:30 - 9:30 pm GARS Know-It-All Net	20	21	22 7:30 - 9:30 am Breakfast at Golden Corral Riverside Drive	23
24 8:00 - 8:30 pm GARS 2m Net	25	26 8:30 - 9:30 pm GARS Know-It-All Net	27	28	29 7:30 - 9:30 am Breakfast at Golden Corral Riverside Drive	30
31						
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Metro Testing Sessions	Ham Exam Results	Metro Club Meetings
<p><i>GARS publishes Metro Atlanta VE exam schedules as a service and is not responsible for errors or changes. Call and confirm schedules before going. All sessions are walk-in. Take copies of current license and certificate of completed elements with you to all sessions. Find additional sessions online at http://www.arrl-ga.org.</i></p> <p>First Sunday, ODD Months 2 pm (Jan, Mar, May, Jul, Sep, & Nov) WCARS VEC Braselton Public Utility Building 4986 Highway 53, Braselton, GA Roger Gibson, WB4T (770) 271-4210 or (770) 712-9560 w4rlg@bellsouth.net</p> <p>First Sunday, EVEN Months 2 pm (Feb, Apr, Jun, Aug, Oct, Dec) WCARS VEC Hall County EOC 470 Crescent Dr. Gainesville, Ga. Perry Roper, KO4RD (770) 536-3056</p> <p>Second Saturday, ODD Months ARRL VEC 8:30 a.m. GMC Community Center 5325 Leon St. Stone Mountain Bob Varone, W4ETN (770) 978-3179 Email: bvarone@juno.com</p> <p>Second Sunday VEC: W5YI 2 pm Gwinnett County Fire Station #5 3001 Old Norcross Road Duluth, GA 30096 Contact: Dave Bruse, W4DTR Email: exams@gars.org</p> <p>Third Saturday VEC: W5YI 3 pm (Except December) Auburn City Hall Council Room 1369 Fourth Avenue Auburn, GA Steve Donellan, N5SMD (404) 520-0368</p> <p><i>(cont. next column)</i></p>	<p>We had a very good test session Sunday Feb. 9.</p> <p>8 applicants tested and 6 up-graded. One of the upgrades was our very own Kevin Whitney, KJ4SUJ (up to Extra). Congrats Kevin.</p> <p><u>Here are the results:</u> 3 new Technicians 2 new Genrals 1 new Extra</p> <p>Thanks to the following VE's who made the session run very smoothly:</p> <p>Sid Weaver, N4NQ, Co-CVE David Bruse, W4DTR, CVE Jeff Cutchins, AB4HF Robert Pursley, WD4KQQ Frank Haynes, KV4SP Donald Bagby, KK4NJM William Douglas, WB4WHD</p> <p>73,</p> <p><i>Sid Weaver, N4NQ</i> Email: exams@gars.org</p> <p>GARS VE Website: http://groups.yahoo.com/group/ARS_VE_Team/</p>	<p>First Tuesday Kennehoochee ARC Downtown Marietta Fire Statioin #1, Training Room 112 Haynes Street Marietta, Georgia 30060 Meeting begins at 7:00pm Talk In 146.880(-)</p> <p>First Thursday Atlanta Radio Club Georgia Red Cross HQ 1955 Monroe Dr., Atlanta Meeting is at 7:30pm Talk In -146.820(-) N.E. Georgia ARC Commerce Public Library Meeting is at 6:30pm Talk In - 147.225(+) PL 123.0</p> <p>Second Monday Georgia Tech ARC Room W218 Van Leer Electrical Engineering Bldg. Georgia Tech Campus Meeting at 7:00pm</p> <p>Second Thursday Alford Memorial Radio Club Annistown Road Baptist Church Intersection of Annistown Rd & Spain Rd Stone Mountain Dinner at 6:00pm Meeting at 7:30pm Talk In - 146.760(-)</p>
	<p>Fourth Tuesday ARRL VEC 7 pm @ United Way Service Center 6279 Fairburn Rd., Douglasville Jessie Clower, KB4WFK (770) 942-6466</p> <p>Fourth Sunday 2:30 pm Georgia Tech VanLeer Elec. Building Rm. W218, 777 Atlantic Dr. See www.w4aql.com Alexander G. Carver (404) 894-2936 acarver@ece.gatech.edu</p>	<p>Second Saturday North GA QRP Club Board Room of The Shepherd Center at 2020 Peachtree Rd, NW, Atlanta at 10:00 AM</p> <p>Third Tuesday North Fulton Amateur Radio League Masonic Lodge 194 Milton Avenue Alpharetta, Georgia meeting at 7:30pm Talk In - 145.47(-)</p> <p>For more, go to: http://www.gars.org/</p>

The Basics

From [KB6NU's Ham Radio Blog](#)

2014 Tech study guide: Basic repair and testing

Posted: 08 Feb 2014 12:10 PM PST

The addition of T7D12 is the only change to this section...Dan

The most common test instrument in an amateur radio shack is the multimeter. Multimeters combine into a single instrument the functions of a voltmeter, ohmmeter, and ammeter. **Voltage and resistance** are two measurements commonly made using a multimeter. (T7D07)

You use a **voltmeter** to measure electric potential or electromotive force. (T7D01) The correct way to connect a voltmeter to a circuit is **in parallel with the circuit**. (T7D02) When measuring high voltages with a voltmeter, one precaution you should take is to **ensure that the voltmeter and leads are rated for use at the voltages to be measured**. (T7D12)

An **ohmmeter** is the instrument used to measure resistance. (T7D05) When measuring circuit resistance with an ohmmeter **ensure that the circuit is not powered**. (T7D11) **Attempting to measure voltage when using the resistance setting** might damage a multimeter. (T7D06) What is probably happening when an ohmmeter, connected across a circuit, initially indicates a low resistance and then shows increasing resistance with time is that **the circuit contains a large capacitor**. (T7D10)

An **ammeter** is the instrument used to measure electric current. (T7D04) An ammeter is usually connected to a circuit **in series with the circuit**. (T7D03)

In addition to knowing how to make electrical measurements, knowing how to solder is an essential skill for amateur radio operators. **Rosin-core solder** is best for radio and electronic use. (T7D08) **A grainy or dull surface** is the characteristic appearance of a "cold" solder joint. (T7D09)

The GARzette

The *GARzette* is the official monthly newsletter of the Gwinnett Amateur Radio Society, serving its members and other persons interested in the advancement of the Amateur Radio art.

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If possible, bring your articles to the monthly meeting in Microsoft Word or rich text (.rtf) or text or HTML format or by email to n4gyn@arrl.net. Artwork can be accepted in most any graphics format and can be submitted via email to the same address. Alternate means of submittal can be arranged when necessary.

In keeping with the Amateur Radio spirit, permission is hereby granted for the reproduction of The *GARzette* articles by other Amateur Radio club newsletters provided that proper credit is given to the individual author and *The GARzette*.

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Deadline for submissions is the 28th of each month for inclusion in the following month's issue.

For additional information view our Website at: <http://www.gars.org>

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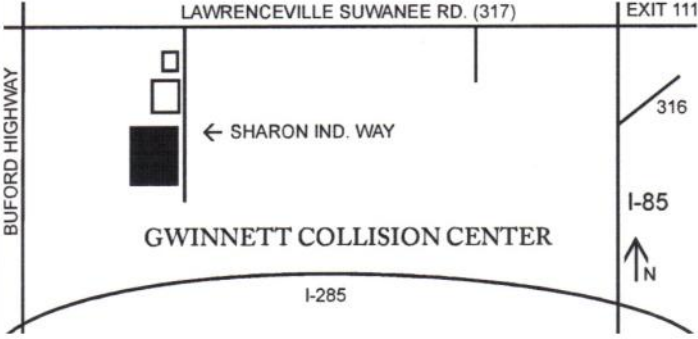


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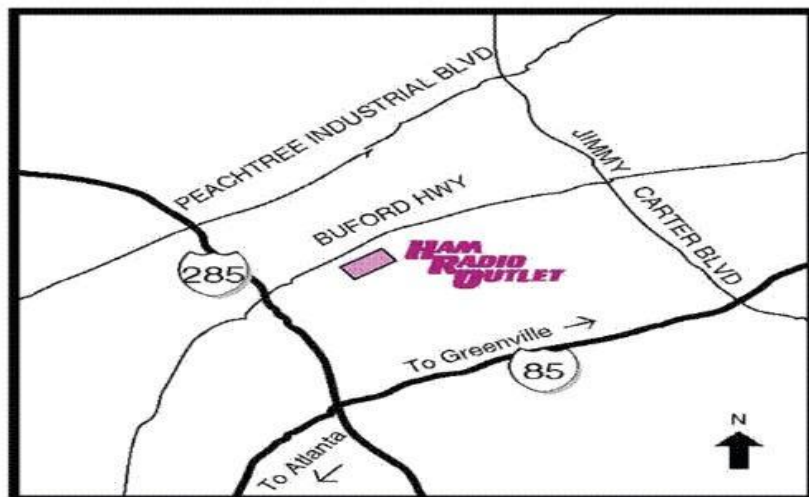
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